IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): KASMIRSKY, Yehoshapat, et al.   Examiner: LE, Thu, N.T.

Serial No.:   10/766,851   Group Art Unit: 2162

Filed: January 30, 2004

Title: CONTENT-BASED STORAGE MANAGEMENT

PROPOSED EXAMINER'S AMENDMENT

Dear Examiner:

Applicants are grateful to the Examiner for initiating the telephone interview of November 18, 2009, with Applicants' representative, Guy Yonay, Reg. No. 52,388, in which the Examiner indicated that claims 48, 52, and 56 would be allowable if rewritten in independent form to include the elements of claims 47, 51, and 55, respectively.

Although in this draft submission, claims 1, 27, and 43 are proposed to be amended, Applicants respectfully submit that the scope of claims 1, 27, and 43 as amended is identical in scope to previously pending claims 48, 52, and 56 (proposed to be cancelled).

In view of the foregoing proposed amendments and remarks, the claims are deemed to be allowable. Their favorable reconsideration and allowance is respectfully requested. Should the Examiner have any question or comment as to this draft proposed Examiner's amendment, the Examiner is requested to contact the undersigned at the telephone number below.

Respectfully submitted,
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Dated: November 18, 2009

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PROPOSED EXAMINER'S AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1.   **(Currently Amended)** A method for managing data storage comprising:

   receiving a stream of audio or video data related to a communication over a communication network;

   automatically analyzing the content of <u>at least one frame of said received stream of</u> the audio or video data to determine at least one characteristic of the audio or video content of the received stream, <u>wherein said characteristic comprises at least presence of a human subject in said at least one frame;</u>

   generating based on said content analysis of the audio or video data metadata associated with the at least one characteristic;

   selecting one of a plurality of storage options having different types of accessibility and/or capacity according to said generated metadata pertaining to said at least one characteristic and according to at least one rule; and

   placing the data into said selected storage option.

2.   (Original) The method of claim 1, wherein said placing said data further comprises compression of the data according to access needs or data importance.

3.   (Original) The method of claim 1, wherein said data is data which needs formatting.

4.   (Cancelled)

5.   (Previously Presented) The method of claim 1, further comprising receiving computer telephony integration (CTI) metadata information associated with the communication;

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wherein selecting one of a plurality of storage options comprises selecting said storage option based on said CTI metadata, wherein the CTI metadata is received from a CTI server.

6.   (Previously Presented) The method of claim 1 comprising:

receiving Computer Relationship Management (CRM) data associated with the communication from a CRM server.

7.   (Cancelled)

8.   (Original) The method of claim 1, wherein said selected storage option causes deletion of the data.

9.   (Original) The method of claims 1, wherein said plurality of storage options include storage options having at least two different types of devices.

10.   (Original) The method of claim 9, wherein at least one storage option includes an on-line storage device.

11.   (Original) The method of claim 9, wherein at least one storage option includes an off-line storage device.

12.   (Original) The method of claim 9, wherein at least one storage option includes a near-line storage device.

13. -14. (Cancelled)

15.   (Previously Presented) The method of claim 1, wherein the data is analyzed automatically according to a type of the data.

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16.   (Original) The method of claim 15, wherein the data includes a plurality of different types of data, and said plurality of different types of data is analyzed concurrently.

17.   (Previously Presented) The method of claim 1, wherein the data is rendered into a common format before being analyzed automatically.

18.   (Previously Presented) The method of claim 1, wherein the data is rendered into a common format after being analyzed automatically.

19.   (Original) The method of claim 1, wherein said at least one rule includes a time interval for holding the data in said selected storage option.

20.   (Original) The method of claim 19, wherein the data is migrated from a first selected storage option to a second selected storage option after said time interval has elapsed.

21.   (Original) The method of claim 1, wherein said at least one rule is entered manually.

22.   (Original) The method of claim 1, wherein said at least one rule is generated automatically.

23.   (Original) The method of claim 22, wherein said at least one rule is generated automatically according to business data.

24.   (Previously Presented) The method of claim 19, wherein said at least one rule includes an action to be performed on the data according to an event, wherein said event is related to said at least one characteristic of the data.

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25.   (Previously Presented) The method of claim 1, further comprising:

> receiving data from an input source, wherein said data includes at least one of coded data, e-mail messages, e-mail attachments, chat messages, other types of messaging system messages, documents transmitted by facsimile and user interface data; and

> automatically analyzing the content of the data received from the input source to determine at least one characteristic of the content of the data.

26.   (Previously Presented) The method of claim 1, wherein feedback from an analysis of the content of the data is used for determining said at least one characteristic.

27.   (**Currently Amended**) A system for data management according to content of the data, comprising:

> an input source to deliver a stream of audio or video data related to a communication over a communication network;

> an analysis module for analyzing the content of <u>at least one frame of said received stream of</u> the data to determine at least one characteristic of the audio or video content of the delivered data stream and to generate based on said content analysis of the audio or video data metadata associated with the at least one characteristic, <u>wherein said characteristic comprises presence of a human subject in said at least one frame</u>;

> a rule engine to compare at least a portion of the generated metadata to at least one rule and to select one of a plurality of storage options based on said comparison;

> a storage manager for receiving a decision related to the selected storage option from said rule engine; and

> a plurality of storage devices having different types of accessibility and/or capacity, wherein said storage manager stores the data in one of said plurality of storage devices according to said decision.

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28.   (Previously Presented) The system of claim 27, wherein said storage devices have different characteristics.

29.   (Previously Presented) The system of claim 28, wherein said different characteristics include lifetime of stored data, and reliability to a user.

30.-33. (Cancelled)

34.   (Original) The system of claim 27, further comprising a client, wherein said rule engine determines if data is to be retrieved to said client.

35.   (Previously Presented) The system of claim 27, further comprising:

    a format analyzer to format the data prior to being delivered to the analysis module,

    wherein said rule engine determines if the data is to be used as feedback to said format analyzer.

36.   (Original) The system of claim 27, wherein an operation of said rule engine is manually triggered.

37.   (Original) The system of claim 27, wherein an operation of said rule engine is automatically triggered.

38.   (Original) The system of claim 37, wherein said rule engine is an initiator of a process for at least storing the data.

39.   (Previously Presented) The system of claim 27 comprising:

    a correlator for correlating data originated from more than one source of data, the data selected from the group containing computer metadata, telephony

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metadata, formatted data and telephony content data for determining at least one characteristic of the data to be stored.

40-42. (Cancelled)

43.   (Currently Amended) A system for data management according to metadata, comprising:

an input source to deliver a stream of audio or video data related to a communication over a communication network;

an analysis module for analyzing the content of the data to determine at least one characteristic of the audio or video content of <u>at least one frame of</u> the delivered data stream and to generate based on said content analysis of the audio or video data metadata associated with the at least one characteristic, <u>wherein said characteristic of the content comprises human presence, and wherein said analysis module is to analyze the content of at least one frame by determining the presence of a human subject in said at least one frame;</u>

a rule engine to compare at least a portion of the generated metadata to at least one rule and to select one of a plurality of storage options based on said comparison;

a storage manager for receiving a decision related to the selected storage option from said rule engine; and

a plurality of storage devices having different types of accessibility and/or capacity, wherein said storage manager stores the data in one of said plurality of storage devices according to said decision.

44.   (Previously Presented) The method of claim 1, wherein the communication is a telephone call between a customer and a member of service center personnel.

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45.　(Previously Presented) The method of claim 1, wherein the communication is a voice communication and further comprising converting the audio data of the voice communication to textual data.

46.　(Previously Presented) The method of claim 45, further comprising analyzing the textual data to categorize the voice communication.

47-48. (Cancelled)

49.　(Currently Amended) The method of claim [[47]] 1, wherein said characteristic of the content further comprises motion detection, and wherein analyzing the content of at least one frame further comprises detecting motion in said at least one frame.

50.　(Currently Amended) The method of claim [[47]] 1, wherein said characteristic of the content further comprises face recognition, and wherein analyzing the content of at least one frame further comprises recognizing a face in said at least one frame.

51-52. (Cancelled)

53.　(Currently Amended) The system of claim [[51]] 27, wherein said characteristic of the content further comprises motion detection, and wherein said analysis module is further to analyze the content of at least one frame by detecting motion in said received stream of video data.

54.　(Currently Amended) The system of claim [[51]] 27, wherein said characteristic of the content further comprises face recognition, and wherein said analysis module is further to analyze the content of at least one frame by recognizing a face in said received stream of video data.

55-56. (Cancelled)

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57.   **(Currently Amended)** The system of claim [[55]] 27, wherein said characteristic of the content further comprises motion detection, and wherein said analysis module is further to analyze the content of at least one frame by detecting motion in said received stream of video data.

58.   **(Currently Amended)** The system of claim [[55]] 27, wherein said characteristic of the content further comprises face recognition, and wherein said analysis module is to further analyze the content of at least one frame by recognizing a face in said received stream of video data.

59.   (Previously Presented) The system of claim 27, further comprising a computer telephony integration (CTI) server to provide CTI metadata information associated with the communication, wherein said rule engine is further to compare at least a portion of the CTI metadata to at least one rule and to select one of a plurality of storage options based on said comparison.

60.   (Previously Presented) The system of claim 43, further comprising a client relationship management (CRM) server to provide CRM metadata input associated with the communication, wherein said rule engine is further to compare at least a portion of the the CRM metadata to at least one rule and to select one of a plurality of storage options based on said comparison.